

Coltrain, Katrina

From: Coltrain, Katrina
Sent: Monday, November 23, 2015 2:08 PM
To: Robinson, Kathleen
Subject: RE: ACE SOW and IGCE--Wilcox Oil Company Superfund Site
Attachments: IGCE Wilcox NHPA Draft 11-23-15.xlsx; Wilcox - USACE IAG SOW for NHPA assistance 11-23-15.docx

Kathleen, based on our conversation this morning the SOW and IGCE have been revised to remove any work that would require or could require the use of a contractor.

Please let me know what edits or revisions are needed.

Katrina Higgins-Coltrain
 Remedial Project Manager
 US EPA Region 6
 LA/OK/NM Section (6SF-RL)
 1445 Ross Avenue
 Dallas, Texas 75202
 214-665-8143

From: Coltrain, Katrina
Sent: Thursday, November 19, 2015 2:13 PM
To: Robinson, Kathleen
Subject: ACE SOW and IGCE--Wilcox Oil Company Superfund Site

Hi Kathleen, Please find attached the SOW and IGCE for technical support from the ACE for completing an evaluation of the Wilcox Oil Company Superfund Site as it relates to compliance with the National Historic Preservation Act Section 106. The SOW reference letters and the geophysics report as reference documents for review. I will need to send these as separate emails due to file size. For the sake of simplicity, I will send these when, if, we are ready to issue the work.

Please let me know what edits or revisions are needed. I hope that I have used a proper template.

thanks

Katrina Higgins-Coltrain
 Remedial Project Manager
 US EPA Region 6
 LA/OK/NM Section (6SF-RL)
 1445 Ross Avenue
 Dallas, Texas 75202
 214-665-8143

IGCE - Army Corps of Engineers
Wilcox-assistance on Natinal
Historic Preservation Act

Project Expense	Phase 1		Phase 2		Project Totals	
	Site Visit and NHPA Discussion		Project Planning/Support and			
	Hours	Total	Hours	Total	Hours	Total
DIRECT LABOR						
Program Manager	0	\$ -	(b) (4)	\$ 2,000.00	(b) (4)	\$ 2,000.00
Professional Archeologist	(b) (4)	\$ 8,400.00	(b) (4)	\$ 10,150.00	(b) (4)	\$ 18,550.00
Professional Historic Assessor		\$ 2,800.00		\$ 10,150.00		\$ 12,950.00
Project Manager		\$ 5,400.00		\$ 2,250.00		\$ 7,650.00
CADD/Arc GIS Mapper	0	\$ -		\$ 1,000.00		\$ 1,000.00
Contracts Manager	0	\$ -	0	\$ -	0	\$ -
Administrative & Clerical	0	\$ -	(b) (4)	\$ 450.00	(b) (4)	\$ 450.00
Subtotal:	(b) (4)	\$ 16,600.00	(b) (4)	\$ 26,000.00	(b) (4)	\$ 42,600.00
TRAVEL & ODC		\$ 2,485.20		\$ -		\$ 2,485.20
		\$ -		\$ -		\$ -
Subtotal:		\$ 2,485.20		\$ -		\$ 2,485.20
SUBCONTRACTOR		\$ -		\$ -		\$ -
Fee 4.25%		\$ -		\$ -		\$ -
Subtotal:		\$ -		\$ -		\$ -
INCENTIVE FEE		\$ -		\$ -		\$ -
TOTAL:	(b) (4)	\$ 19,085.20	(b) (4)	\$ 26,000.00	(b) (4)	\$ 45,085.20

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Phase 1: Site Visit and NHPA Discussion

Labor	Labor Hours	Non-Labor Units	Unit of Measure	Unit Cost	Labor Cost	Subcon. Cost	Travel Cost	Other ODC Cost	Total
Program Manager			Hr	\$ 200.00	\$ -				\$ -
Professional Archeologist	(b) (4)		Hr	\$ 175.00	\$ 8,400.00				\$ 8,400.00
Professional Historic Assessor			Hr	\$ 175.00	\$ 2,800.00				\$ 2,800.00
Project Manager			Hr	\$ 150.00	\$ 5,400.00				\$ 5,400.00
CADD/Arc GIS Mapper			Hr	\$ 125.00	\$ -				\$ -
Contracts Manager			Hr	\$ 100.00	\$ -				\$ -
Administrative & Clerical			Hr	\$ 75.00	\$ -				\$ -
Subtotal:	(b) (4)								
Travel									
Airfare		2	Each	\$ 516.00			\$ 1,032.00		\$ 1,032.00
Lodging		4	Day	\$ 89.00			\$ 356.00		\$ 356.00
Lodging-Standard CONUS		4	Day	\$113.00			\$ 52.00		\$ 52.00
Rental Car		4	Day	\$ 65.00			\$ 260.00		\$ 260.00
Gasoline		2	LS	\$50.00			\$ 100.00		\$ 100.00
Parking		4	Day	\$ 15.00			\$ 60.00		\$ 60.00
Mileage - Pickup Truck	OK local	460	Mile	\$ 0.57			\$ 262.20		\$ 262.20
Mileage - Personal Vehicle	airport	100	Mile	\$ 0.57			\$ 57.00		\$ 57.00
M&IE-Standard			Day	\$ 51.00			\$ -		\$ -
M&IE-75% partial day		8	Day	\$ 38.25			\$ 306.00		\$ 306.00
Report Production									
Shipping			LS	\$ 25.00				\$ -	\$ -
Copying			Page	\$ 0.10				\$ -	\$ -
Other			LS					\$ -	\$ -
Other									
Office Supplies			Each					\$ -	\$ -
			Each					\$ -	\$ -
Equipment									
			Each					\$ -	\$ -
			Each					\$ -	\$ -
Subcontractors									
			Each			\$ -			\$ -
			Each			\$ -			\$ -
Subcontractor Fee 4.25%									
Incentive Fee									
Phase 1 Subtotals									
	(b) (4)				\$ 16,600.00	\$ -	\$ 2,485	\$ -	\$ 19,085.20

6 months for entire project

All labor rates used in this estimate are assumed to include overhead, expenses, labor/salary, general and administrative expenses and fee.

Program Manager	Professional Archeologist	Professional Historic Assessor	Project Manager	CADD/Arc GIS Mapper	Contracts Manager	Administrative & Clerical	Total
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1 Previous study review							
hisotrical documentation	8	8					16
Geophysics	8	8	4				20
							36

2 Travel							
meet with OK	16		16				32
Meet with tribe	16		16				32
							64
	0	48	16	36	0	0	100

Assumptions									
Assume 2 trips of 2 days for 2 persons									
one person will need airfare from Texas; the other is from Tulsa and will drive									
4 days total									
Travel	air		2					Unit Cost	
	hotel	2 nights	one trip		2 people	4 nights		\$16/flight	
	rental car	4 days						\$89/day	
	rental car gas	2 fills						\$65/day	
	MIE	2 days	one trip		2 people	ays 75% per diem		\$50 each	
		2 days	one trip		2 people	full per diem		\$38.25/day	
	Parking	4 days		1 people		4 Days		\$51/day	
	Miles	2 trips	230 miles	1 people		460 miles		\$15/day	
								\$0.57	

EPA: Katrina Higgins- Coltrain
Date: 11-23-15

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Phase 2: Project Planning/Support and NHPA Research

Labor	Labor Hours	Non-Labor Units	Unit of Measure	Unit Cost	Labor Cost	Subcon. Cost	Travel Cost	Other ODC Cost	Total
Program Manager	(b) (4)		Hr	\$ 200.00	\$ 2,000.00				\$ 2,000.00
Professional Archeologist	(b) (4)		Hr	\$ 175.00	\$ 10,150.00				\$ 10,150.00
Professional Historic Assessor	(b) (4)		Hr	\$ 175.00	\$ 10,150.00				\$ 10,150.00
Project Manager	(b) (4)		Hr	\$ 150.00	\$ 2,250.00				\$ 2,250.00
CADD/Arc GIS Mapper	(b) (4)		Hr	\$ 125.00	\$ 1,000.00				\$ 1,000.00
Contracts Manager	0		Hr	\$ 100.00	\$ -				\$ -
Administrative & Clerical	(b) (4)		Hr	\$ 75.00	\$ 450.00				\$ 450.00
Subtotal:	(b) (4)								
Travel									
Airfare			Each				\$ -		\$ -
Lodging-Standard CONUS			Day				\$ -		\$ -
Lodging			Day				\$ -		\$ -
Rental Car			Day				\$ -		\$ -
Gasoline			LS				\$ -		\$ -
Pickup Truck			Day				\$ -		\$ -
Mileage - Pickup Truck			Mile	\$ 0.45			\$ -		\$ -
Mileage - Personal Vehicle			Mile	\$ 0.45			\$ -		\$ -
M&IE-Standard CONUS			Day				\$ -		\$ -
M&IE-			Day				\$ -		\$ -
Report Production									
Shipping			LS	\$ 25.00				\$ -	\$ -
Copying			Page	\$ 0.10				\$ -	\$ -
Other			LS					\$ -	\$ -
Other									
Office Supplies			Each					\$ -	\$ -
			Each					\$ -	\$ -
Equipment									
			Each					\$ -	\$ -
			Each					\$ -	\$ -
Subcontractors									
			Each			\$ -			\$ -
			Each			\$ -			\$ -
Subcontractor Fee 4.25%									
									\$ -
Incentive Fee									
Phase 2 Subtotals:									
	(b) (4)				\$ 26,000.00	\$ -	\$ -	\$ -	\$ 26,000.00

4 month project

Program Manager	Professional Archeologist	Professional Historic Assessor	Project Manager	CADD/Arc GIS Mapper	Contracts Manager	Administrative & Clerical	Total
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1 Research database search (NHRP, etc)		32	32				64
							0
							64
2 Report/Technical Memo							
draft report	4	16	16	4	6	2	48
revise report	2	4	4	2	2	1	15
							63
3 monthly Progress reports							
draft report	4	4	4	7		2	21
revise report		2	2	2		1	7
							28
	10	58	58	15	8	0	155

WORK AUTHORIZATION
Statement of Work (SOW)
Wilcox Oil Company Superfund Site
CERCLIS No.: OK0001010917 Site ID: 06GG
November 23, 2015

1.0 PURPOSE. The purpose of this Work Authorization issued to the Tulsa Division of the United States Army Corps of Engineers (USACE) under multi-site Interagency Agreement DW-96-95854901-0 between the Environmental Protection Agency (EPA) and the USACE is to provide technical support to EPA, including preparing an independent assessment of cultural and historical resources in accordance with National Historic Preservation Act Section 106 for the Wilcox Oil Company Superfund Site (Site).

In general, this work will be conducted in phases since subsequent phases and the level of effort associated with those phases will be dependent on information reviews and findings of the previous work. EPA has initiated the review process with the Oklahoma Historical Society State Historic Preservation Office, the Oklahoma Archeological Survey, and the Muscogee (Creek) Nation historic Preservation Office. Letters and information exchanged between EPA and these entities should be used as a starting point and reference as well as any data generated by EPA during the Phase 1 investigation activities being performed as part of the remedial investigation for the site.

2.0 BACKGROUND

Full Title of Site: Wilcox Oil Company Superfund Site (OK0001010917)

Federal Funding Agency: The funding agency requesting the historical review is the United States Environmental Protection Agency, Region 6.

Wilcox Oil Company Location: Reference Maps included.

Address: West 221st Street South/Refinery Road, 0.35 mile east of U.S. Highway 66

City, County, State: Bristow, Creek County, OK, 74010

Topographic Map: Bristow Quadrangle, OK

Latitude: 35°50'26.8966" N Longitude: 96°22'48.693" W

Township-Range: N ½ of the NW ¼ of S29 T16N R9E and the SW ¼ of the SW ¼ of S20 T16N R9E

Site History and Background: The Wilcox Oil Company Superfund Site (Site) is an abandoned and demolished oil refinery and associated tank farm located north of Bristow, Creek County, Oklahoma. The geographic coordinates of the Site are approximately 35°50'31" North latitude and 96°23'02" West longitude. A detailed title search in the Creek County Clerk office confirms that the property was used in oil refinery operations from approximately 1915 until November 1963. The former Lorraine refinery, including associated tank farm, covers approximately 20 of the 125 acre Site, and operated under numerous companies from approximately 1915 to 1937 when the property was sold to Wilcox Oil and Gas Company. Wilcox Oil and Gas Company purchased refinery operations on the remaining acres east of the railroad tracks and operated as a crude oil refinery from the 1920s until the property was sold on 1 November 1963.

A modern skimming and cracking plant was constructed in 1929. The upgraded facility had an operating capacity of 4,000 barrels of crude oil per day. The main components of the system consisted of a skimming plant, cracking unit, and redistillation battery with a vapor recovery system and continuous treating equipment. The crude oil was brought directly from the field, eliminating storage and handling facilities, but resulting in crude with high sediment and water.

Sanborn fire insurance maps can be used to understand historical property usage. The Wilcox Oil and Gas Company and Lorraine Refining Company Sanborn Insurance Maps indicate that the properties contained approximately 80 storage tanks of various sizes, a cooling pond, and around 10 buildings housing refinery operations. The maps also indicate that crude oil, fuel oil, gas oil, distillate, kerosene, naptha, and benzene (petroleum ether) were all stored on the property.

The Site can be divided into four major former operational areas: the Wilcox refinery, the Lorraine refinery, the north tank farm, and the east tank farm.

- The former Wilcox refinery area is fenced and covers approximately 26 acres. Most of the equipment and storage tanks that remained on-site in 1963 were auctioned and have been salvaged for scrap iron by private land owners, and what remains are in ruins. Four aboveground storage tanks (12,500 gallons each) remain standing, in addition to a number of buildings, discarded drums and pieces of scrap iron and piping. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature. A building in the northern part of the former refinery has been converted to a residence. An intermittent creek flows southward across the eastern portion of the refinery area through a small pond in the southeast corner of the refinery area and into Sand Creek.
- The former Lorraine refinery area covers approximately 8 acres and includes the southwestern portion of the Site, south of Refinery Road and west of the railroad. No refinery structures remain in the processing area. The First Assembly of God Church, a playground, and one residence are located here. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature.
- The East tank farm was a large crude oil storage area/tank farm covering approximately 79 acres and contains pits, ponds, and a number of circular berms that surrounded tank locations. All of the tanks have been cut down and removed; however, remnants of the tank locations remain and are visible. Many of the berms surrounding the pits, ponds, and former tanks have been cut or leveled. An intermittent creek is located in the eastern portion of the tank farm and flows south to Sand Creek. A pumping or gas compressor station exists in the north-central portion of the Site, and an active pipeline crosses from northwest to southeast across the middle of the Site. There are four residences located on top of or directly next to former tank locations. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature. Waste was also observed in several drainage channels that empty into Sand Creek.
- The North tank farm was a crude and fuel oil storage area consisting of approximately 12 acres. No refinery structures remain in the product storage area, and all tanks have been cut down and removed. Remnants of the tank locations are not visible, and historic locations are difficult to pinpoint. One residence is located in this area.

After the refinery operations ceased and most of the tanks and buildings demolished and sold for scrap, the property was sold to private interests. Beginning in 1975 with the construction of the church, private residences were constructed on 6 parcels of land that were part of the former refinery operations. The most recent being constructed in 2003/2004. One former building associated with the refinery was repurposed as a residence. As a result, there are a total of seven residences on the Site, all of which are located on former tank or refinery operations locations. Three of the residences located on the eastern portion of the Site are known to use water from domestic/private wells. The drainage pattern of the Site is primarily towards Sand Creek which provides the western and southwestern boundaries of the Site. Two intermittent streams and several drainage channels cross the portion of the Site east of the railroad and flow into Sand Creek.

The refinery waste source areas of concern include a backfilled oily waste pond and pit, a breached settling pond, a former pond apparently backfilled with solid refinery waste, and a number of former tank storage areas. The contaminants of concern are metals and organic compounds (Total Petroleum Hydrocarbons (TPH) and Polycyclic Aromatic Hydrocarbons (PAHs)). These potential contaminants of concern are found in soil, sediment, and waste material.

Investigation History: Multiple investigations have been performed on the Site since 1994. These documents were used to summarize the Site background and operational history described above.

- Preliminary Assessment (PA) was performed at the former Wilcox Refinery Site by the Oklahoma Department of Environmental Quality (ODEQ) in December 1994.
- Expand Site Inspection (ESI) was performed at the former Wilcox Refinery Site for the Environmental Protection Agency (EPA) in March 1997.
- Site Assessment (SA) was performed at the former Wilcox Refinery Site by EPA in March 1999.
- PA was performed at the former Lorraine Refinery Site by ODEQ in September 2008.
- Site Inspection (SI) was performed at the former Lorraine Refinery Site by ODEQ in August 2009.
- ESI was performed at the former Lorraine Refinery Site by ODEQ in September 2010.
- ESI was performed at the former Wilcox Refinery Site by ODEQ in September 2011.
- Hazard Ranking System Package completed in May 2013.
- Residential Sampling completed 2015. Data review is underway.
- 2015: Planned and ongoing RI investigation by EPA including geophysical and direct sensing techniques.

Cleanup History: The following actions have been taken at the Site.

- EPA and ODEQ met with residents on March 24 and 25, 2015, to talk about property sampling. As a result, the EPA sampled 9 residential properties in May/June 2015 and fenced additional areas of concern.
- In November 2014, ODEQ informed EPA that there was a potential elevated level of lead in the blood of a child living on the Site. The EPA developed a sampling plan and sampled the property in December 2014.
- In July 2014, the EPA installed a cap on the drinking water well near the Church on the Site and put up a fence with signs around an area of concern.
- Currently, ODEQ is performing quarterly testing of drinking water wells for residents in and around this Site. No Maximum Contaminant Levels (MCLs) have been exceeded.

Cleanup Status: This Site is currently in the Remedial Investigation and Feasibility Study phase of the Superfund process. The RI/FS identifies the type and extent of contamination, evaluates if there is a health risk for humans and wildlife, identifies a list of cleanup options that can be used to cleanup the contamination at the Site, and estimates the cost of each cleanup option. Based on results of the RI/FS phase, a Proposed Plan is written to identify the preferred cleanup option and the cost. The Proposed Plan is expected to be released to the public for review and comment in 2018.

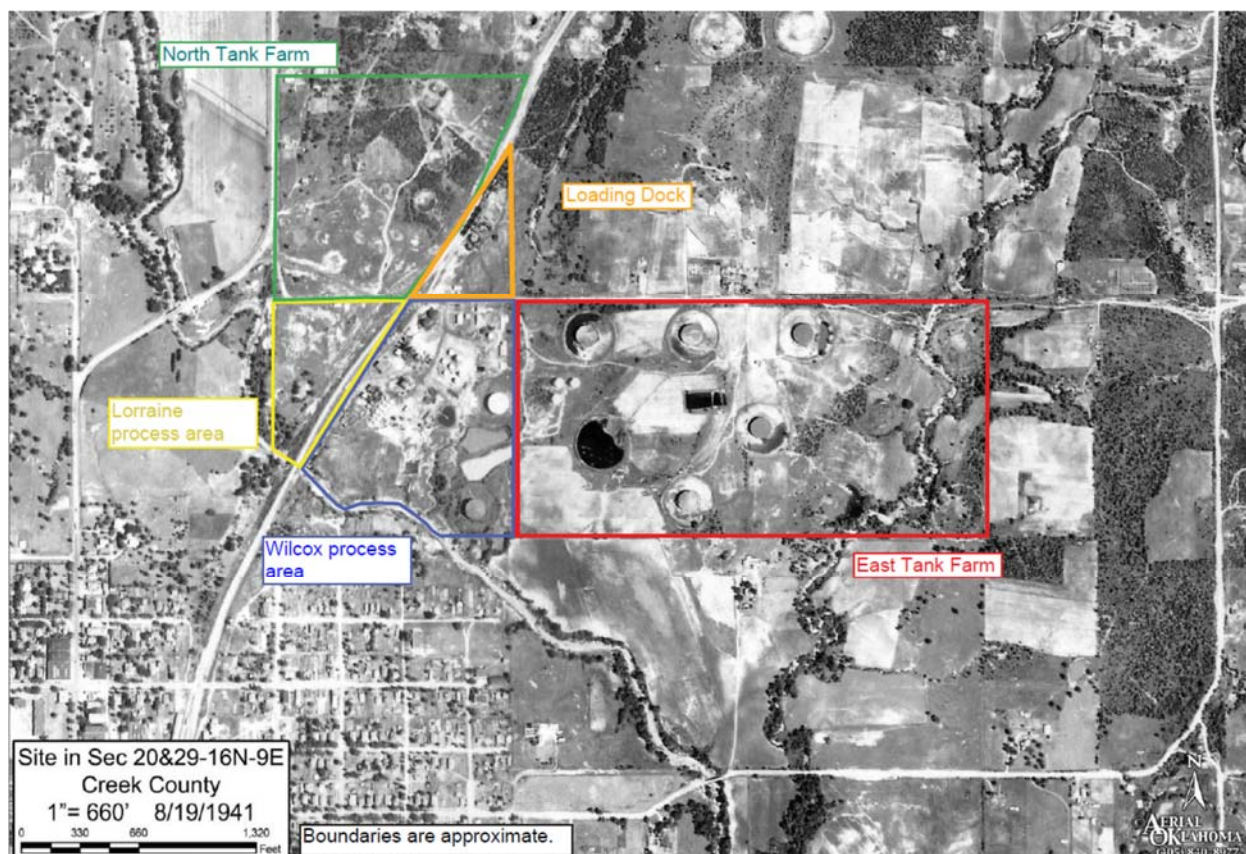


Figure 1: Site aerial photograph showing areas of interest.

2.1 PROJECT POINT OF CONTACT (POCs).

Technical POC: Katrina Higgins-Coltrain, EPA Region 6, 1445 Ross Avenue, Suite 1200, Dallas, Texas 75202, Remedial Project Manager, 214-665-8143.
coltrain.katrina@epa.gov

Financial POC: Kathleen Robinson, EPA Region 6, 214-665-2252.
robinson.kathleen@epa.gov;

Marvene Seaman, CEHNC-EMS, 402-697-2425.
Marvene.L.Seaman@usace.army.mil

2.2 PROJECT DELIVERY TEAM.

Technical POCs: Ashley Allinder, P.E., Project Manager
Programs and Project Management Division, Military Programs Branch Tulsa District, USACE
1645 S 101 E Ave, Tulsa, OK 74128-4609
918-669-7413 ashley.j.allinder@usace.army.mil

3.0 SCOPE OF WORK. This section outlines the tasks that the PDT will perform to accomplish the requirements described in EPA's Work Authorization.

Phase 1: Site Visit and NHPA Discussion

1. Select members will travel to meet with the EPA RPM for planning purposes and to inspect the Site and to become familiar with the surroundings. Include one overnight trip to the Site for not more than two persons.
2. Select members will travel to meet with the historic preservation contacts for Oklahoma and the Muscogee (Creek) Nation. Include one overnight trip for not more than two persons. Efforts should be made to combine the travel listed under numbers 1 and 2.
3. Review previous site information shared between EPA and historic preservation contacts. The letters and maps are included with the SOW. In addition, the draft geophysics report is also included for reference.
4. Work may include the documentation of existing buildings using the Oklahoma Historic Preservation Resource Identification Form.

Phase 2: Project Planning/Support and NHPA Research

1. Complete any additional research or information gathering that will assist in the evaluation of the presence or absence of historical or cultural resources.
2. Based on a review of the previous work, the site reconnaissance, and any conversations with historic preservation contacts and/or private land owners, summarize the findings, interpretations, and/or recommendations for the site as it relates to the presence or absence of historical or cultural resources.
3. Communicate at least weekly with the EPA Remedial Project Manager (RPM) regarding progress and issues identified during the report review.
4. Maintain all technical and financial records associated with this Work Authorization.
5. Prepare and submit monthly progress reports and invoices to document monthly and cumulative cost, performance status, and technical progress.

DELIVERABLES

1. Submit progress reports and invoices to the EPA RPM for each month no later the 15th day of the following month.
2. Submit a report/technical memorandum to the EPA completing Phase 1 within 4 weeks of initiation of this Work Authorization.
3. If it is determined through the work completed under Phase 1 that further work is necessary, then submit a report/technical memorandum to the EPA completing Phase 2 within 6 weeks of completing Phase 1.

4. Provide technical support to EPA, including preparation of technical memorandums regarding the above issues during the Period of Performance.

PERIOD OF PERFORMANCE

It is anticipated that this Work Authorization will cover a time interval of approximately 6 months, or until March 31, 2016.